

Life History and Limiting Factors of Endangered Forest Birds in a Hawaiian Rainforest

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Photo by Jack Jeffrey

Objectives:

- ☆ Determine limiting factors responsible for gradient in forest bird densities in largest wet forest bird refuge on Hawai'i
- ☆ Document life history traits of 3 endangered specialist insectivores endemic to high-elevation rainforests on Hawaii

Accomplishments:

- ☆ Tested 6 hypotheses for gradient in forest bird densities (disease, predation, vegetation structure/comp, nesting cavities, food resources, pig disturbance)
- ☆ Documented survival rates, nesting success, dispersal & movements, and estimated population growth rate for 7 spp

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Significance:

- ☆ First ecological / behavioral study of wet-forest bird community as a whole
- ☆ Provided managers with information on limiting factors of native birds within refuge
- ☆ Identified liwi as species of concern based on demographic variables /processes

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